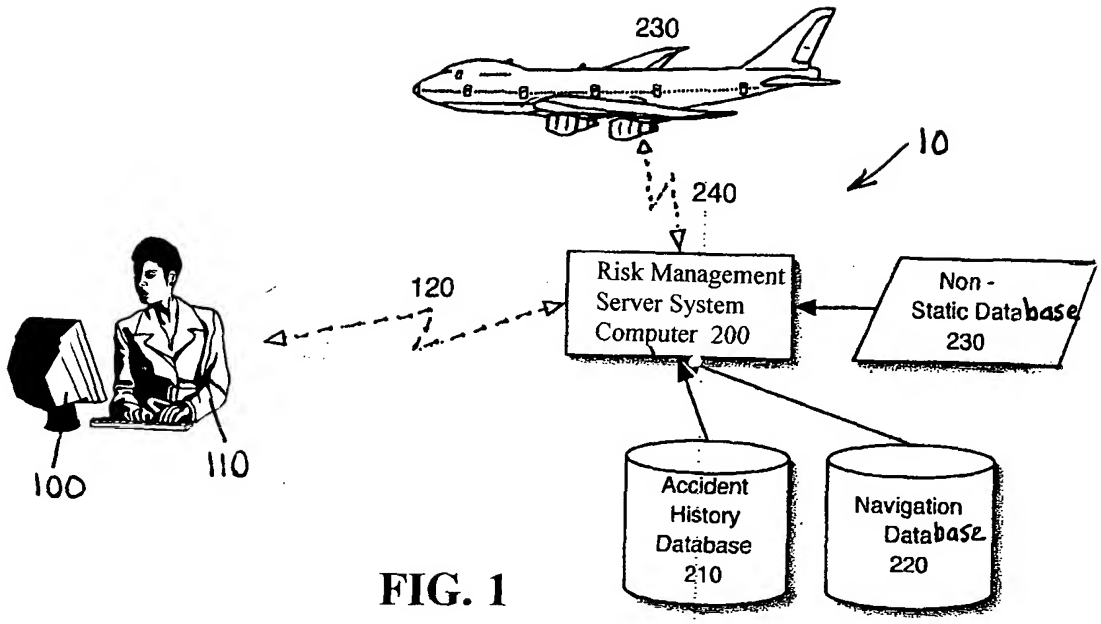
230
10
240
120
Risk Management Server System Computer 200
Non - Static Database 230
100
110
Accident History Database 210
Navigation Database 220

FIG. 1

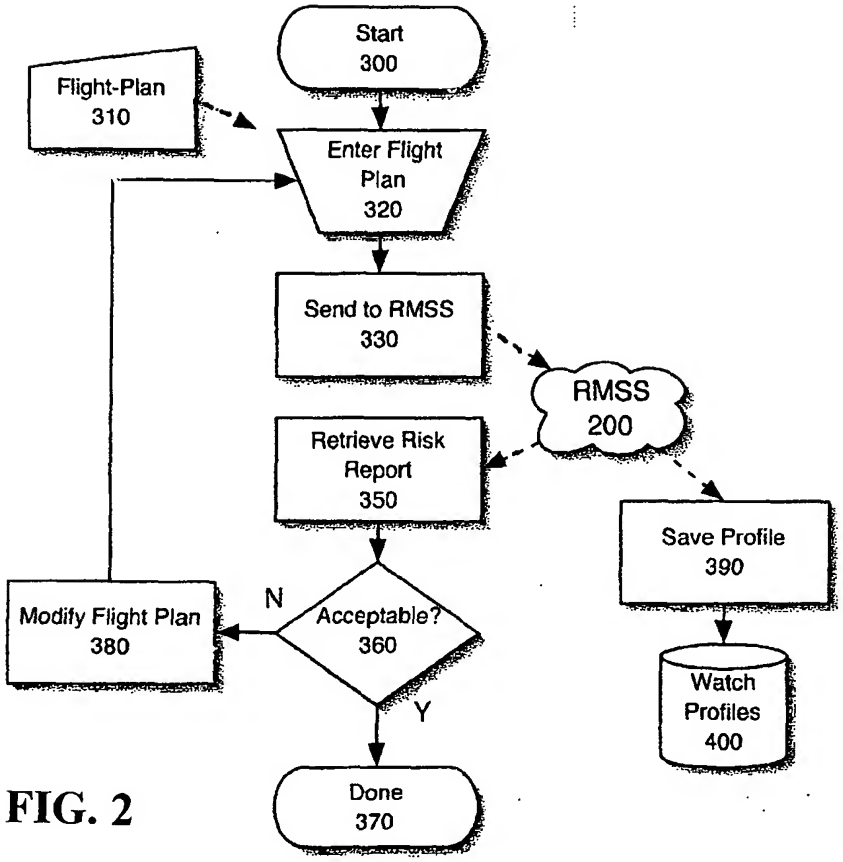
Start 300
Flight-Plan 310
Enter Flight Plan 320
Send to RMSS 330
RMSS 200
Retrieve Risk Report 350
Save Profile 390
Modify Flight Plan 380
N
Acceptable? 360
Watch Profiles 400
Y
Done 370

FIG. 2

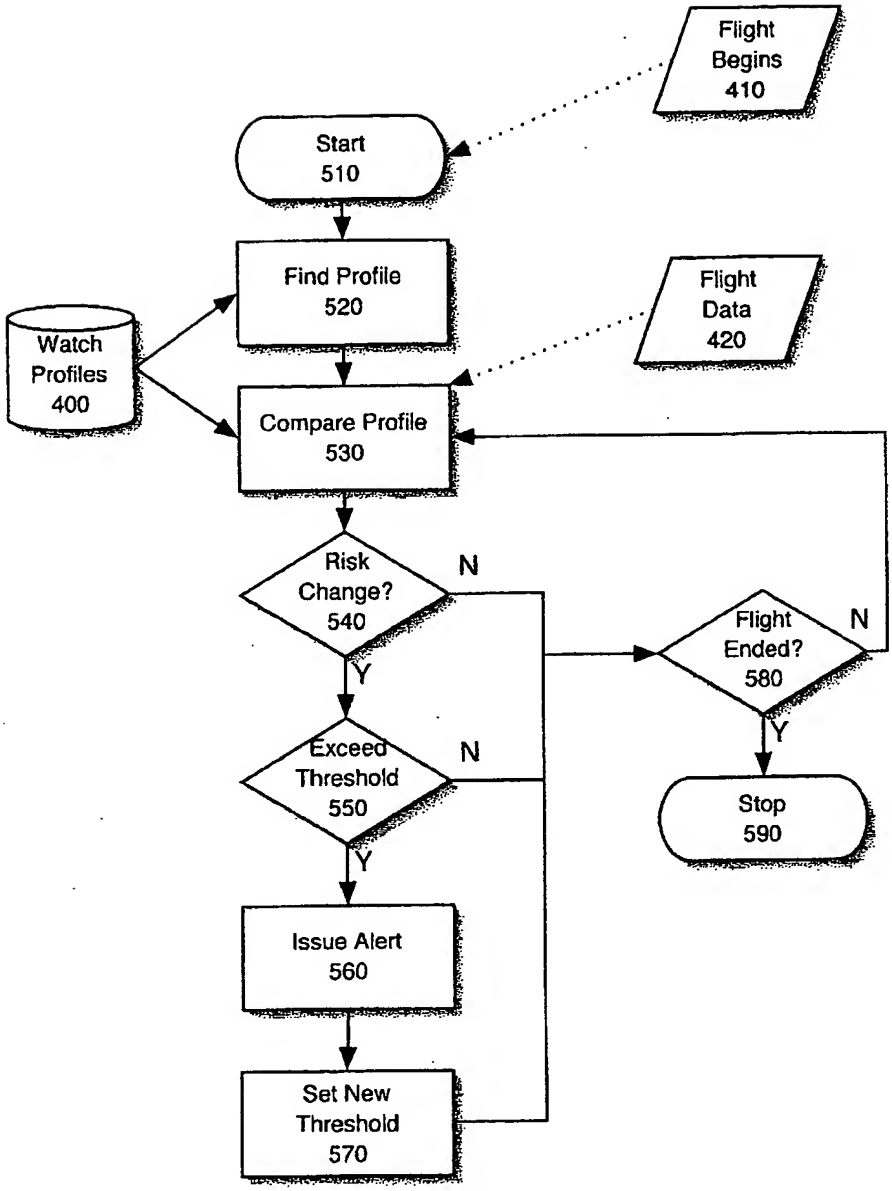
Flight Begins 410
Start 510
Find Profile 520
Flight Data 420
Watch Profiles 400
Compare Profile 530
Risk Change? 540
N
Y
Flight Ended? 580
N
Y
Exceed Threshold 550
N
Y
Stop 590
Issue Alert 560
Set New Threshold 570

FIG. 3

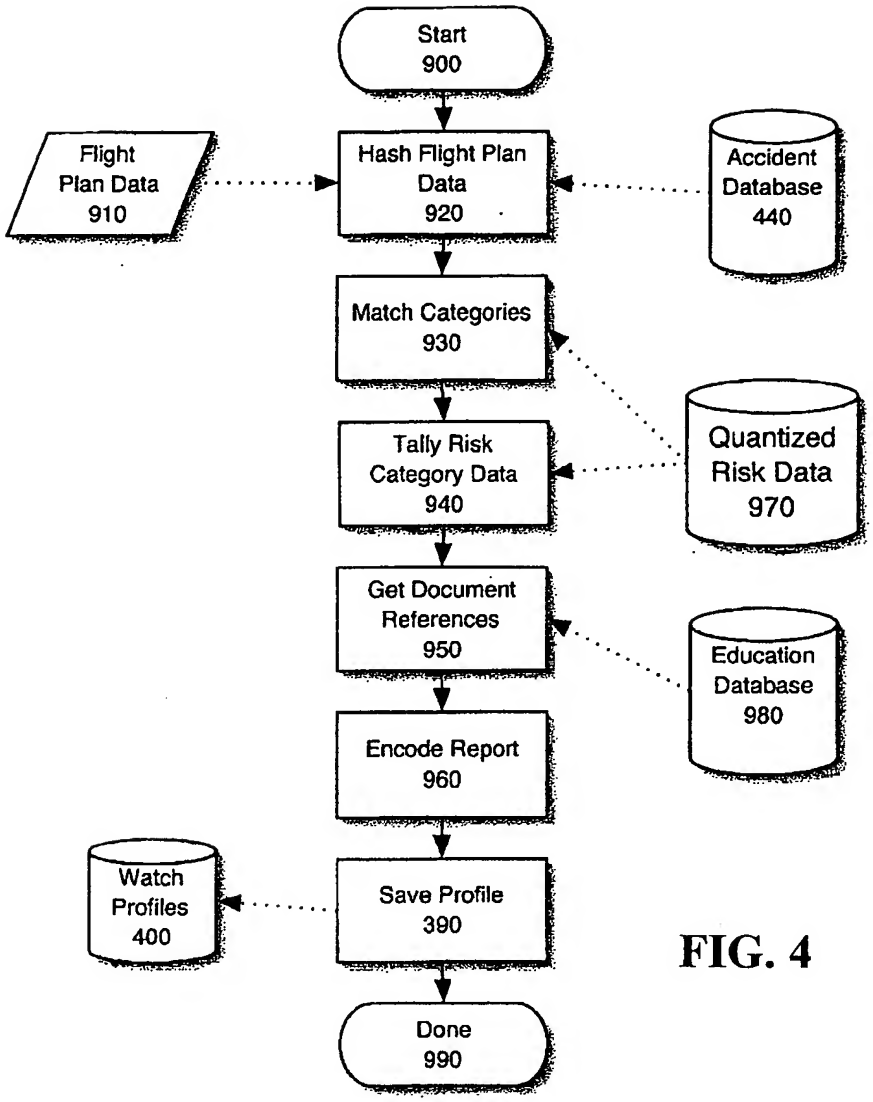
Start
900
Flight
Plan Data
910
Hash Flight Plan
Data
920
Accident
Database
440
Match Categories
930
Tally Risk
Category Data
940
Quantized
Risk Data
970
Get Document
References
950
Education
Database
980
Encode Report
960
Watch
Profiles
400
Save Profile
390
Done
990

FIG. 4

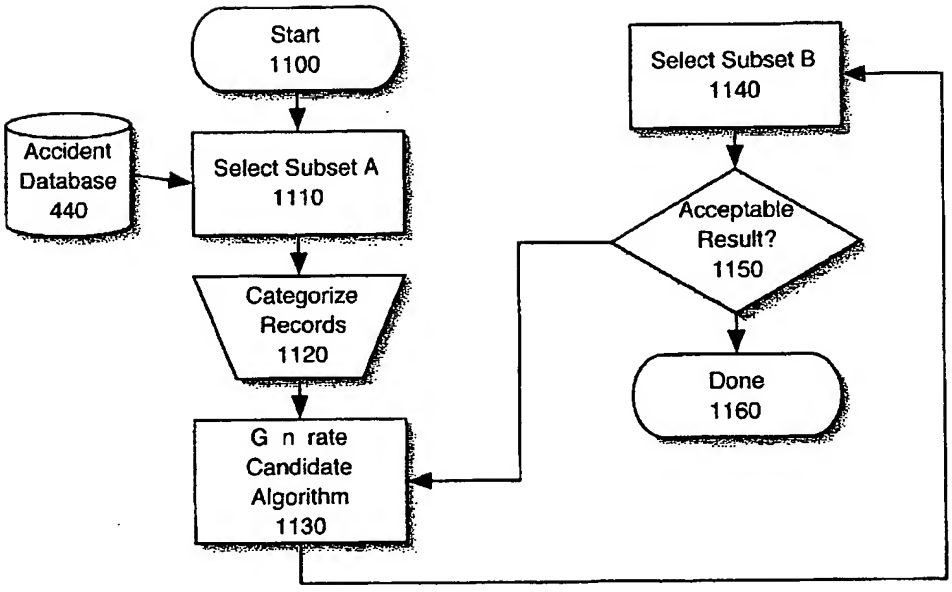
Start
1100
Accident
Database
440
Select Subset A
1110
Categorize
Records
1120
G n rate
Candidate
Algorithm
1130
Select Subset B
1140
Acceptable
Result?
1150
Done
1160

FIG. 5

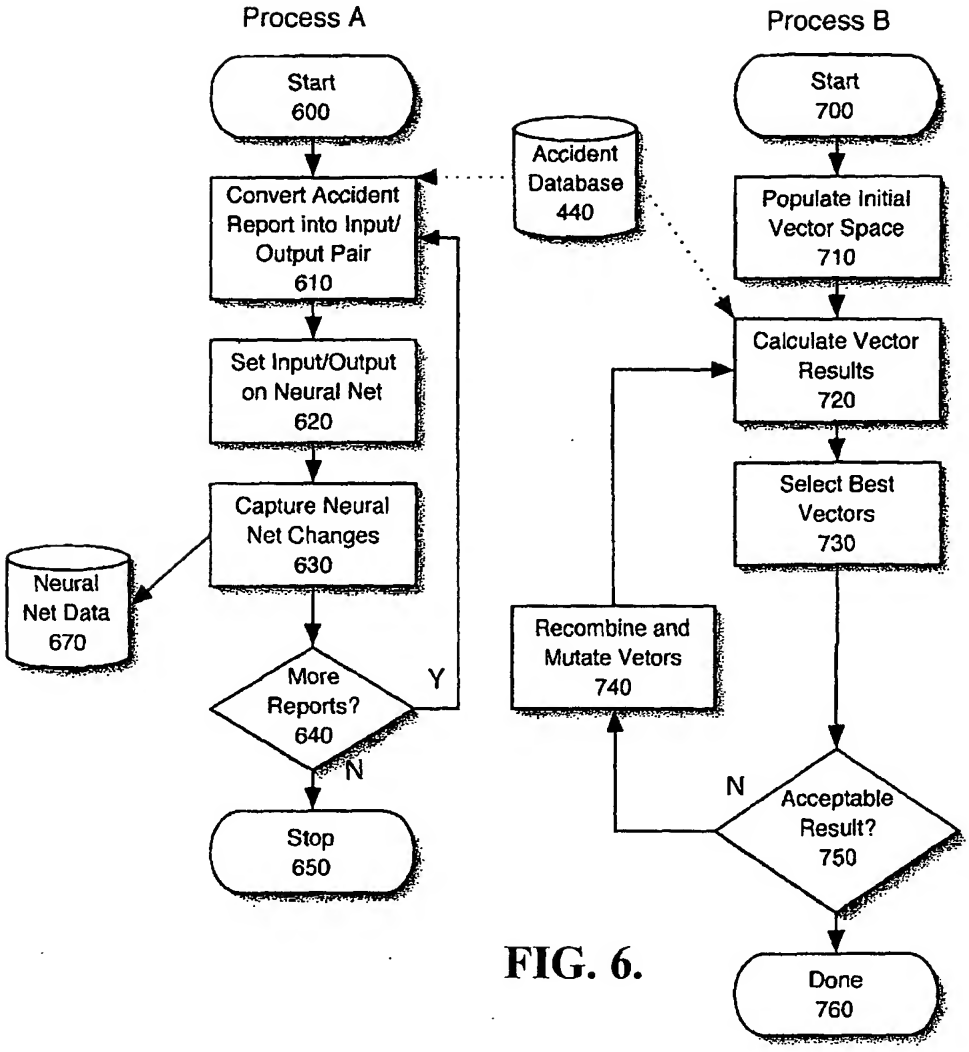
Process A
Process B
Start
600
Start
700
Accident
Database
440
Convert Accident
Report into Input/
Output Pair
610
Populate Initial
Vector Space
710
Set Input/Output
on Neural Net
620
Calculate Vector
Results
720
Capture Neural
Net Changes
630
Select Best
Vectors
730
Neural
Net Data
670
Recombine and
Mutate Vetors
740
More
Reports?
640
Y
N
N
Acceptable
Result?
750
Stop
650
Done
760

FIG. 6.

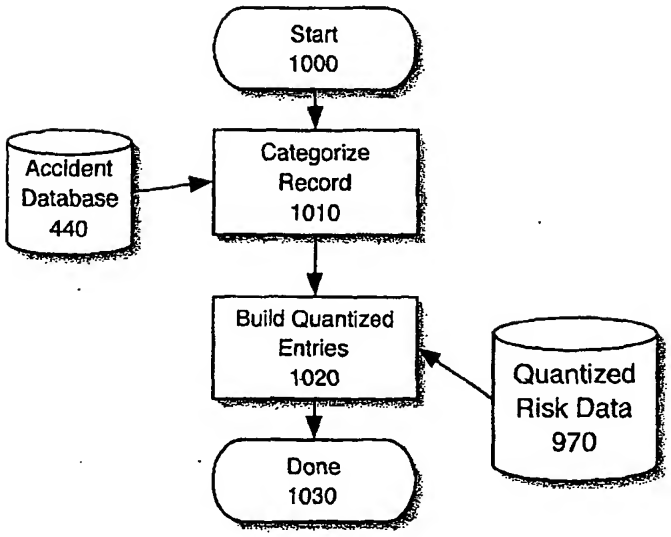
Start
1000
Accident
Database
440
Categorize
Record
1010
Build Quantized
Entries
1020
Quantized
Risk Data
970
Done
1030

FIG. 7